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1 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Eimagarmid

June 1999 **Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM

Full text available: Pdf (233.31 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 574, Download

Recent advances in wireless data networking and portable information are paradigm of computing, called mobile computing, in which users carry information services ...

Keywords: application adaptation, cache invalidation, caching, client/server operation, mobile applications, mobile client/server, mobile computing, mobile system application

2 Cool-Tether: energy efficient on-the-fly wifi hot-spots using mobile pl

Ashish Sharma, Vishnu Navda, Ramachandran Ramjee, Venkata N. Padmanabhan

December 2009 **CoNEXT '09: Proceedings of the 5th international conference on** and technologies

Publisher: ACM

Full text available: Pdf (1.52 MB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 89, Download

We consider the problem of providing ubiquitous yet affordable Internet work, and on the move. In this context, we take advantage of two significant commoditization of WiFi WLAN technology and ...

Keywords: 3g, energy efficient, mobile phones, tethering, web browser

3 URICA: Usage-aware Interactive Content Adaptation for mobile dev

Iqbal Mohamed, Jim Chengming Cai, Eyal de Lara

April 2006 **EuroSys '06: Proceedings of the 1st ACM SIGOPS/EuroSys Eu** Systems 2006

Publisher: ACM

Full text available: Pdf (717.27 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 36, Download

Usage-awaRe Interactive Content Adaptation (URIKA) is an automatic technique to adapt content to mobile devices based on usage semantics. URIKA allows users who are not experts to take control of the adaptation decision to take control of the ...

Keywords: content adaptation, customization, learning, mobile devices

Also published in:

October 2006 **SIGOPS Operating Systems Review** Volume 40 Issue 4

4 MAR: a commuter router infrastructure for the mobile Internet

 [Pablo Rodriguez, Rajiv Chakravorty, Julian Chesterfield, Ian Prati, Suman Iyer](#)
June 2004 **MobiSys '04: Proceedings of the 2nd international conference on mobile systems, applications and services**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(422.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

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We introduce MAR, a commuter mobile access router infrastructure that leverages channel diversity, network diversity, and technology diversity) to provide improved quality of service to mobile users. Our system design stems ...

Keywords: channel diversity, multi-link bandwidth aggregation, wireless networks

5 DSMeM Streaming: distributed system to mitigate the effects of performance degradation on IEEE 802.11 WLANs

[Manuel Vilas, Raquel Sanchez, Xabier G. Pajeda, David Melendi, Roberto G. Dominguez](#)
January 2010 **Wireless Networks**, Volume 16 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf \(842.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 11, Downloaded 0 times

On *IEEE 802.11* wireless LANs (*WLAN*) the clients have control over the best *AP (access point)* to be associated to and when and where to change it.

Keywords: Handoff, IEEE 802.11, Mobility, Streaming

6 802.11 power-saving mode for mobile computing in Wi-Fi hotspots: Issues and solutions

[G. Anastasi, M. Conti, E. Gregori, A. Passarella](#)
December 2008 **Wireless Networks**, Volume 14 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf \(777.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

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Nowadays Wi-Fi is the most mature technology for wireless-Internet access. The increasing diffusion of Wi-Fi hotspots, energy limitations of mobile devices and the standard 802.11 includes a ...

Keywords: 802.11, Wi-Fi, mobile computing, network architecture & design, power-aware systems, power-saving mode

7 [Virtual operator based AAA in wireless LAN hot spots with ad-hoc networks](#)

 Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June 2002 **SIGMOBILE Mobile Computing and Communications Review**

Publisher: ACM

Full text available:  Pdf (180.11 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 43, Download

Sound and effective authentication, authorization and accounting (AAA) for mobile wireless accesses are of great importance given the increased popularity of public wireless LAN hot spots. One ...

8 [mango: low-cost, scalable delivery of rich content on mobiles](#)

 Ankur Jain, Sharad Jaiswal, Anirban Majumder, Naidu K.V.M, Girija Narlikar, Poosala

August 2009 **MobiHeld '09: Proceedings of the 1st ACM workshop on Networks for mobile handhelds**

Publisher: ACM

Full text available:  Pdf (444.62 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 68, Download

We present mango, a low-cost and highly scalable content-delivery service targeted at emerging countries such as India where users are highly price sensitive and the demand for rich media content. ...

Keywords: CDN, mobile applications

9 [When to use a compilation service?](#)

 Jeffrey Palm, Han Lee, Amer Diwan, J. Eliot B. Moss

July 2002 **LCTES/ SCOPES '02: Proceedings of the joint conference on Languages and compilation for embedded systems: software and compilers for embedded systems**

Publisher: ACM 

Full text available:  Pdf (365.49 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Download

Modern handheld computers are certainly capable of running general purpose machines. However, short battery life rather than computational capabilities is a major limitation of handheld computers. This paper considers ...

Keywords: Java, distributed compilation, energy efficient compilation

Also published in:

July 2002 **SIGPLAN Notices** Volume 37 Issue 7

10 [A social framework for content distribution in mobile transient networks](#)

Benjamin Molina, Salvatore F. Pileggi, Carlos E. Palau, Manuel Esteve

June 2008 **UPGRADE '08: Proceedings of the third international workshop on development of content networks**
Publisher: ACM
Full text available:  [Pdf \(256.67 KB\)](#) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 89, Download

Transient networks are spontaneous networks that appear for a short period of time for services such as connectivity and content distribution among a small collection of nodes becoming multimode by nature providing ...

Keywords: distributed and mobile transient network, intelligent agents, peer, social network, web semantic

11 Improving TCP performance over wireless networks with collaborative proxy
 Kyu-Han Kim, Kang G. Shin
June 2005 **MobiSys '05: Proceedings of the 3rd international conference on mobile systems, applications and services**
Publisher: ACM  [Request Permissions](#)
Full text available:  [Pdf \(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)
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Multi-homed mobile hosts situated in physical proximity may spontaneously share their wireless wide-area network (WWAN) by connecting with a remote application server and utilizing ...

12 Proxy data transfer system with a stable control channel and dynamic proxy
 Akira Nagata, Shinya Yamamura, Masato Uchida, Masato Tsuru
September 2008 **CHANTS '08: Proceedings of the third ACM workshop on Challenged network**
Publisher: ACM  [Request Permissions](#)
Full text available:  [Pdf \(331.52 KB\)](#) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 15, Download

The present paper introduces the Proxy Data Transfer system, which enables data transfer over long delays and leaky or frequently disconnecting networks (referred to as "challenged environment"), in which traditional ...

Keywords: challenged network, control channel, dtn, satellite link

13 Ditto: a system for opportunistic caching in multi-hop wireless networks
 Fahad R. Dogar, Amar Phanishayee, Himabindu Pucha, Olatunji Ruwase, D. R. Cypher
September 2008 **MobiCom '08: Proceedings of the 14th ACM international conference on mobile computing and networking**
Publisher: ACM  [Request Permissions](#)
Full text available:  [Pdf \(1.46 MB\)](#) Additional Information: [full citation](#), [abstract](#)
Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 176, Download

This paper presents the design, implementation, and evaluation of Ditto, a system that uses overheard data to improve subsequent transfer throughput in wireless networks.

have been proposed as a way to provide ...

Keywords: mesh networks, multi-hop wireless networks, opportunistic

14 Performance OpenGL: platform independent techniques

 Bob Kuehne, Tom True, Alan Commike, Dave Shreiner

July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(3.76 MB\)](#)

Additional Information: [full citation](#), [reference](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 134, Download

15 Replication for web hosting systems

 Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen

September 2004 **Computing Surveys (CSUR)**, Volume 36 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(374.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

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Replication is a well-known technique to improve the accessibility of Web services. It reduces latencies and increases a site's availability. However, applying replication to Web services is not trivial. Content Delivery Networks ...

Keywords: Web replication, content delivery networks

16 UniWireless: a distributed open access network

 Danilo Severina, Mauro Brunato, Alessandro Ordine, Luca Veltri

September 2006 **WMASH '06: Proceedings of the 4th international workshop on wireless hotspots and services on WLAN hotspots**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(272.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 31, Download

In this paper we describe the UniWireless framework, a nationwide distributed system for the management of WLAN hotspots. It is based on the collaboration of different research units collaborating in the TWELVE national project. The system is able to manage the collection of involved hotspots, ...

Keywords: access gateways, authentication, authorization, open access

17 Using graphic turing tests to counter automated DDoS attacks again

 William G. Morein, Angelos Stavrou, Debra L. Cook, Angelos D. Keromytis

October 2003 **CCS '03: Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf \(256.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 85, Download

We present WebSOS, a novel overlay-based architecture that provides a defense against denial of service (DoS) attacks. Our approach exploits two

environment: its design around a human-centric ...

Keywords: Java, graphic turing tests, web proxies

18 [MaJaB: improving resource management for web-based applications](#)

 Du Li, Manish Anand

June 2009 **MobiSys '09:** Proceedings of the 7th international conference services

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (639.16 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 396, Download

The Web has become the host platform for interactive and collaborative multiple Web services. This transition is pushing the browsers to perform better resource utilization. ...

Keywords: ajax, collaborative systems, middleware, mobile phone, mc optimization, resource management, web 2.0, web os

19 [Distributed content delivery using load-aware network coordinates](#)

 Nicholas Ball, Peter Pietzuch

December 2008 **CoNEXT '08:** Proceedings of the 2008 ACM CoNEXT Conference

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (358.47 KB)

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 63, Download

To scale to millions of Internet users with good performance, content delivery requests between content servers while assigning clients to nearby servers. A CDN design that associates synthetic ...

20 [Scalable dissemination: what's hot and what's not](#)

 Jonathan Beaver, Nicholas Morsillo, Kirk Pruhs, Panos K. Chrysanthis, Vincenzo

June 2004 **WebDB '04:** Proceedings of the 7th International Workshop

with ACM SIGMOD/PODS 2004

Publisher: ACM

Full text available:  [Pdf](#) (314.87 KB)

Additional Information: [full citation](#), [abstract](#)

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A major problem in web database applications and on the Internet in general is the problem of scalability. One proposed solution for this problem is a hybrid system that uses multiple servers to handle popular data, and reserves traditional ...

R

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